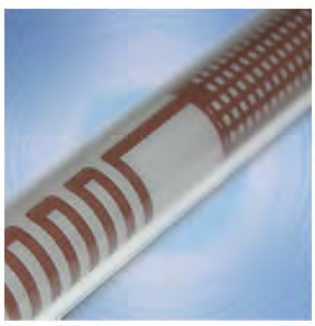
User's Manual

RUP-001

RFI Uploader Program

Base Line 1.01

Document Number: INS41802-1



Company Overview

RFI has been serving the needs of the wireless communications market for over 30 years. First founded as a manufacturer of antenna systems, RFI has grown to be a key player in the development, manufacturing and distribution of wireless technology and energy products. Through our extensive network of resellers, systems integrators and retail outlets, RFI is a key supplier to both industry and Government.

Our research and manufacturing facilities have talented people, sophisticated test equipment, state of the art software with class leading manufacturing systems and techniques. Additionally, we have in place a quality management program which is certified to ISO9001, environmental management system certification to ISO14001 and occupational health and safety standard AS4801 giving you complete confidence in everything we do.

RFI's products are truly innovative and as a result we are active around the globe taking our Australian designed and manufactured products to key markets in Asia Pacific, the Americas and EMEA regions via offices 'in-region' in addition to exporting directly to in excess of 50 countries.

One of RFI's key principals is to remain totally customer focused as we recognise our future depends on the success of our customers. We know that to be chosen as your supplier we must add value to your business and to achieve this we will work hard to deliver the best product when and where you need it and back this up with the very best technical support available.

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Draft	12th June 2014
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1.01	28th October 2014

Acknowledgements

Disclaimer

Product part numbering in photographs and drawings is accurate at the time of printing. Part number labels on RFI products supersede part numbers given within this manual. Information is subject to change without notice.

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For further information or help with this product contact your nearest RFI sales office or through the following;

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Sales email	webmaster@rfi.com.au	sales@rfiemea.com	webmaster@rfi.com.au
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Fax Intl	+ 1 (330) 486 0705	-	+61 2 9630 0844
Web	rfiamericas.com	rfiemea.com	rfi.com.au

1. General Description

The RFI Uploader Program (RUP-001) is a software update manager program suitable for use with supported RFI products.

The RFI Uploader program allows a fleet of multiple units to be conveniently managed when IP connectivity and current Software revision status needs to be confirmed, and when Software is to be updated.

A limited functionality "trial" version of program is available at no charge from RFI, and is shipped with supported products. It is also available for download from our web site.

A licence serial number for full-featured activation of the trial version is available for purchase from RFI.

A separate licence purchase must be made for each IP Address (i.e. each unit) to be managed using the software.

2. RFI Uploader Program - Specifications

Feature	RUP-001
TRIAL VERSION	
Trial Period	30 calendar days from initial installation
Trial Limitations	Trial Expires after Trial Period
LICENCED VERSION	
Licence Requirement	One licence to be purchased per IP Address (i.e. each unit) to be managed using the software
Licence Period	2 years (perpetual no-charge renewal of licence upon each expiry)
GENERAL	
Products Supported	ASM / APM / RMC series
Number of Supported Sites/IP Addresses	up to 250
Computer Minimum Specifications	Windows XP Service Pack 3, Windows Vista, Windows 7, Windows 8 and Windows 8.1 There are no known special hardware requirements to run this program other than those to run the respective operating system.
Network Connectivity	TCPIP (Port 80) connectivity to listed sites/units

Table 1

3. Software License Agreement

This licence agreement must be read in its entirety prior to the loading or use of the software provided by RFI.

Introduction.

By loading any product related Software you agree without reserve with all the conditions as detailed in this RFI Software License Agreement.

The term "Software" for the sake of this statement includes all software or software upgrades, either as a new installation, revision, patches or upgrades. Any reference to software, for the purposes of this license agreement, will therefore be included in the term Software.

RFI refers to the Australian registered company RF Industries Pty Ltd.

The copyright of all Software relating to this product remains the property in whole of RFI and is therefore protected by the respective international copyright or trademark laws.

You agree that by using and or downloading any of the RFI product specific Software, that you have fully understood and agree to comply and be bound by the all of the conditional requirements as detailed in this Software License Agreement and accept the disclaimer thereof.

RFI reserves the right to update and change, from time to time, any attribute, function, feature and in the main any content of the Software and any documentation attributed and referenced to the Software underwritten by this Software License Agreement without notice to existing users.

The use of this Software is non-exclusive and non-sub licensable, nor does it give the user the right to re-sell, lease, loan, distribute, or transfer the Software nor the rights thereof.

This Software License Agreement grants or implies no right, title, or interest in any intellectual property owned or licensed by RFI.

Support and Software Updates.

RFI may elect to provide you with customer support and/or Software upgrades, enhancements, or modifications for the RFI Software at its sole discretion, and may terminate such support at any time without notice to the user. RFI may change, suspend, or discontinue any aspect of the Software at any time, including the availability of any Software feature, database, or content.

From time to time RFI may provide notice through the RFI web site of any available updates or Software revision downloads.

Fees.

RFI reserves the right to charge fees for upgrades or revisions of the applicable Software.

Each purchase of the Software licenses the use of the software for one unit only of any supported product. Multiple licences equaling the number of units to be managed using the software must be purchased by the user.

Disclaimer.

Use of any Software enabling operation of the product or providing support for the product is at the user's discretion and risk. RFI will not be held responsible or liable for any damage or loss that results from the downloading and or use of the Software or incompatibilities or other problems experienced as a result of any combination of operating system(s), Software, or software the user may use.

RFI will not be held responsible or liable for any inaccuracies, completeness or inadequacy regarding the Software as the basis of the provision of the Software is on a "fit-for-purpose, best effort" approach.

RFI will not be liable to the user for claims and liabilities of any kind arising out of or in any way related to the use of the Software by the user or any third party.

The failure of RFI to exercise or enforce any right or provision of this Software License Agreement shall not constitute a waiver of such right or provision.

4. Installation

Initial Installation

The initial installation of the RFI Uploader Program is of a "trial" version. The installed trial will expire after thirty (30) calendar days from its initial installation date. A Licence Key that enables full program functionality may be purchased from RFI and entered via the program's menu.

A separate licence purchase must be made for each IP Address (i.e. each unit) to be managed using the software.

When purchased, a licence key validates the use of the program for a 2 year period. New licence keys will be provided at no charge upon each licence period's expiry.

Obtain a copy of the RFI_Uploader executable file. This program is supplied with supported RFI products or may be downloaded from the RFI web site. Copy this file to a convenient directory location on the intended host computer.

Launch the *RFI_Uploader.exe* executable file. The initial installation screen will appear;

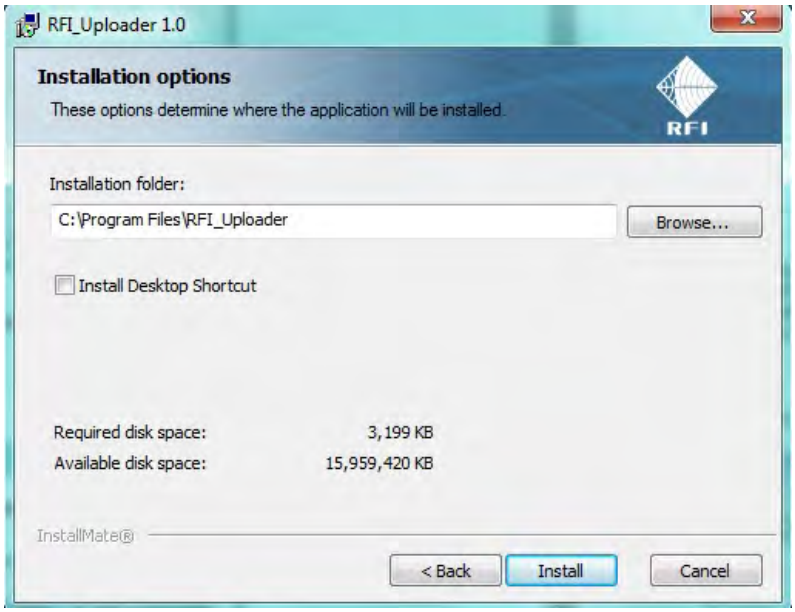
RFI_Uploader 1.0
RFI_Uploader 1.0
Publisher: RF Industries Pty Ltd
Web site: http://www.rfi.com.au
This will install or upgrade RFI_Uploader on your computer.
Click Next to continue.
Copyright © 2014 RF Industries Pty Ltd
This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, is a violation of applicable laws.
RFI
< Back
Next >
Cancel

Click "Next". A Software Licence Agreement screen will appear. Please read all of the agreement and click that you agree to these terms and conditions.

RFI_Uploader 1.0
License agreement
Please read the license agreement carefully before continuing.
RFI
Software Licence Agreement
Introduction.
By installing this Software you agree without reserve with all the conditions as detailed in this RFI Software License Agreement.
The term "Software" for the sake of this statement includes all software or firmware upgrades, either as a new installation, revision, patches or upgrades. Any reference to firmware, for the purposes of this license agreement, will therefore be included in the term Software.
RFI refers to the Australian registered company RF Industries Pty Ltd.
InstallMate®
I agree to these terms and conditions
< Back
Next >
Cancel

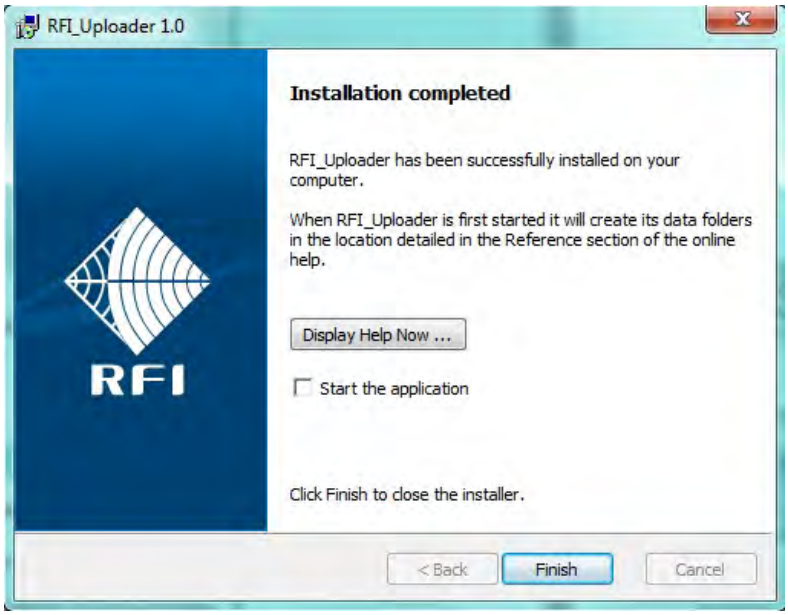
Click "Next".

The following screen will appear, nominating the currently chosen installation directory;



Select the Installation Folder that you wish the RFI Uploader program to be installed into, and select *Install Desktop Shortcut* if you wish one to be created. Click "Install".

When installation is completed the following screen will appear;


RFI_Uploader 1.0
Installation completed
RFI_Uploader has been successfully installed on your computer.
When RFI_Uploader is first started it will create its data folders in the location detailed in the Reference section of the online help.
Display Help Now ...
Start the application
Click Finish to close the installer.
RFI
< Back
Finish
Cancel

Click the "Display Help Now" and or the "Start the application" selections if desired, or click "Finish".

Note: The installation is now complete.

5. Program Operation

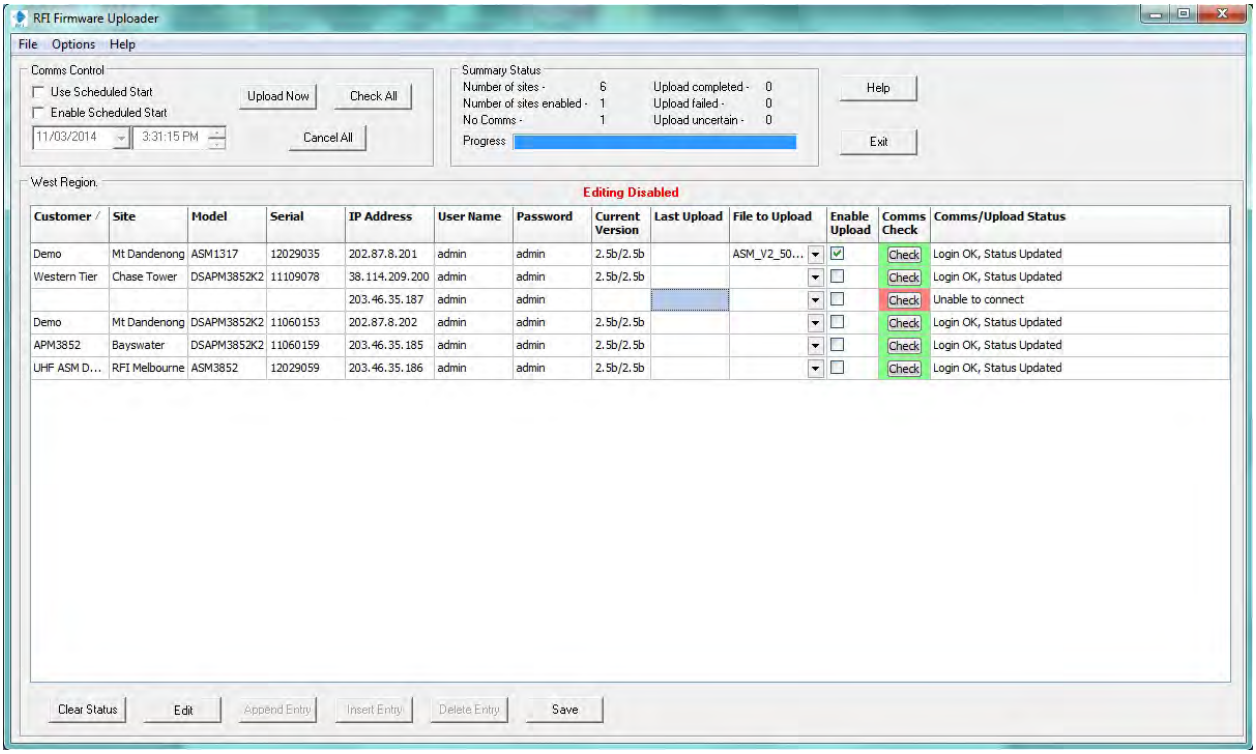
5.1 Running the program for the first time

When the RFI Uploader program is launched a message screen will appear;

This screen displays the current licence status of the program. When the program is run for the first time, there are no default directories configured, so an additional message screen will appear stating that no firmware update files are currently locatable. This will be dealt with as part of the initial program configuration that follows. Click "OK" to close this message screen.

Note: The initial installation is a thirty (30) day Trial Licence.

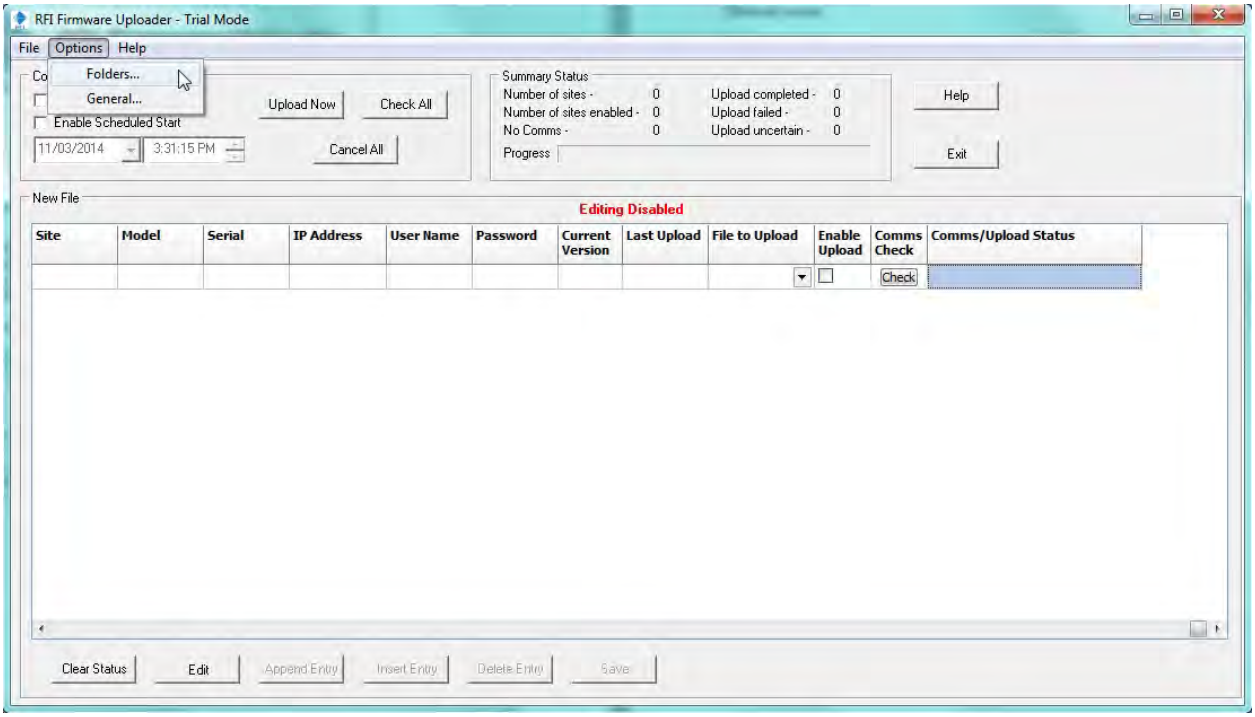
The main program screen will now appear;


RFI Firmware Uploader
File Options Help
Comms Control
Use Scheduled Start
Enable Scheduled Start
11/03/2014
3:31:15 PM
Upload Now
Check All
Cancel All
Summary Status
Number of sites - 6
Number of sites enabled - 1
No Comms - 1
Upload completed - 0
Upload failed - 0
Upload uncertain - 0
Progress
Help
Exit
West Region
Editing Disabled
Customer / Site Model Serial IP Address User Name Password Current Version Last Upload File to Upload Enable Upload Comms Check Comms/Upload Status
Demo Mt Dandenong ASM1317 12029035 202.87.8.201 admin admin 2.5b/2.5b ASM_V2_50... Check Login OK, Status Updated
Western Tier Chase Tower DSAPM3852K2 11109078 38.114.209.200 admin admin 2.5b/2.5b Check Login OK, Status Updated
203.46.35.187 admin admin Check Unable to connect
Demo Mt Dandenong DSAPM3852K2 11060153 202.87.8.202 admin admin 2.5b/2.5b Check Login OK, Status Updated
APM3852 Bayswater DSAPM3852K2 11060159 203.46.35.185 admin admin 2.5b/2.5b Check Login OK, Status Updated
UHF ASM D... RFI Melbourne ASM3852 12029059 203.46.35.186 admin admin 2.5b/2.5b Check Login OK, Status Updated
Clear Status
Edit
Append Entry
Insert Entry
Delete Entry
Save

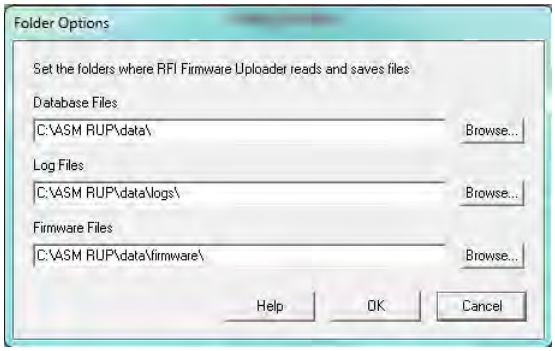
Note: A blank screen or a pre-loaded database may appear, depending on the *Options – General – Re-Load Last Used File* selection.

5.2 Initial Configuration

Select *Options – Folders* from the menu;

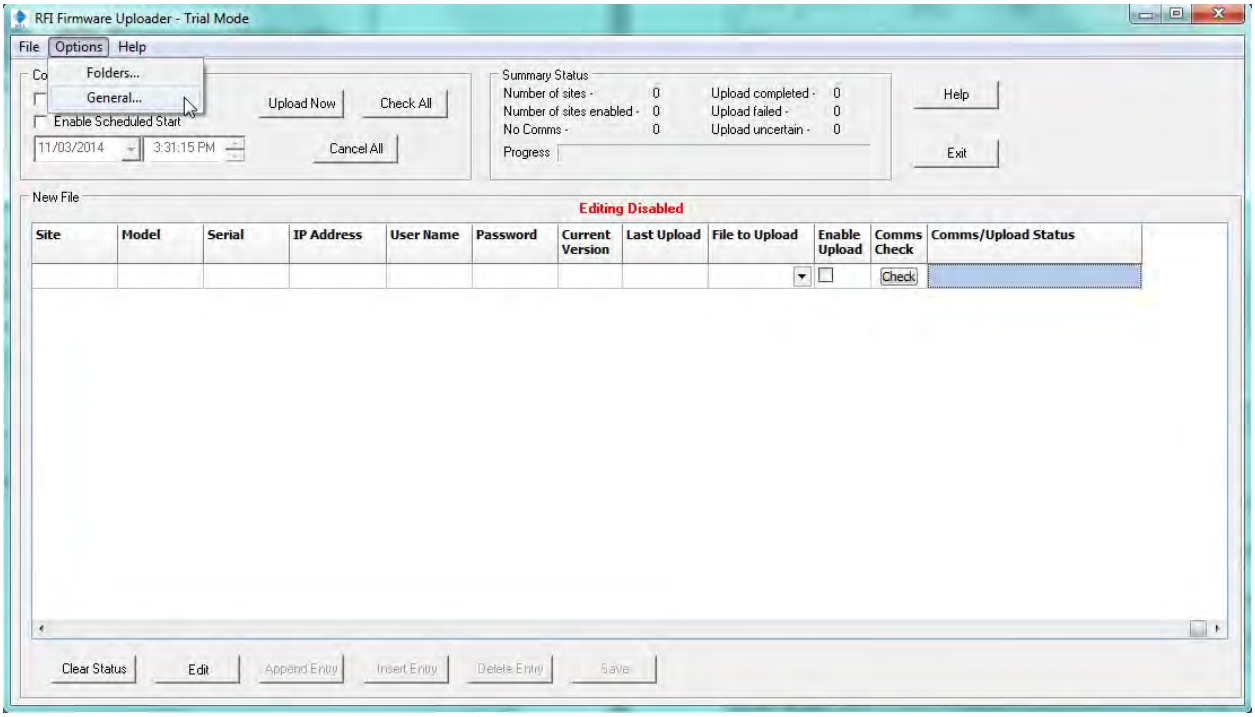


The following screen will appear;

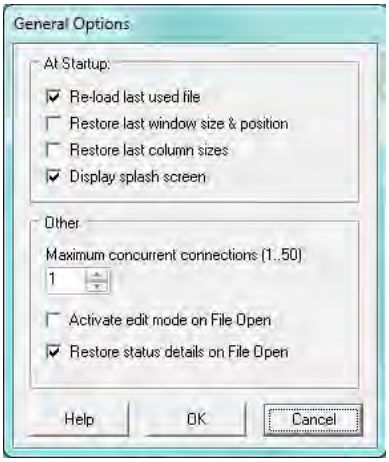


Use the "Browse" buttons to select the directory locations where you Database Files, Log Files and Firmware Files are to reside. Click "OK" to save these locations. A "Help" page is available for use if required.

Select *Options – General* from the menu;



The following screen will appear;



Select the available options as desired. Click "OK" to save these settings. A "Help" page is available for use if required.

Note: Maximum concurrent connections

For a typical computer, a value of 10 - 20 in this field should suitable. If your machine processing speed and internet bandwidth is sufficient, a larger number will reduce uploading time for a larger number of sites. However, if upload speed appears very slow, try a smaller number in this field.

Operating through some remote desktop environments (such as Citrix™ and others) on some computers, some erratic operation may be experienced. Under such circumstances, run the program running on the local machine – preferably with direct connection from that machine to the TCPIP network.

Anomalies have been observed when using Windows 8, which may cause the application to freeze if more than 1 connection is simultaneously active. Under such circumstances, run the program with 1 connection selected in this field.

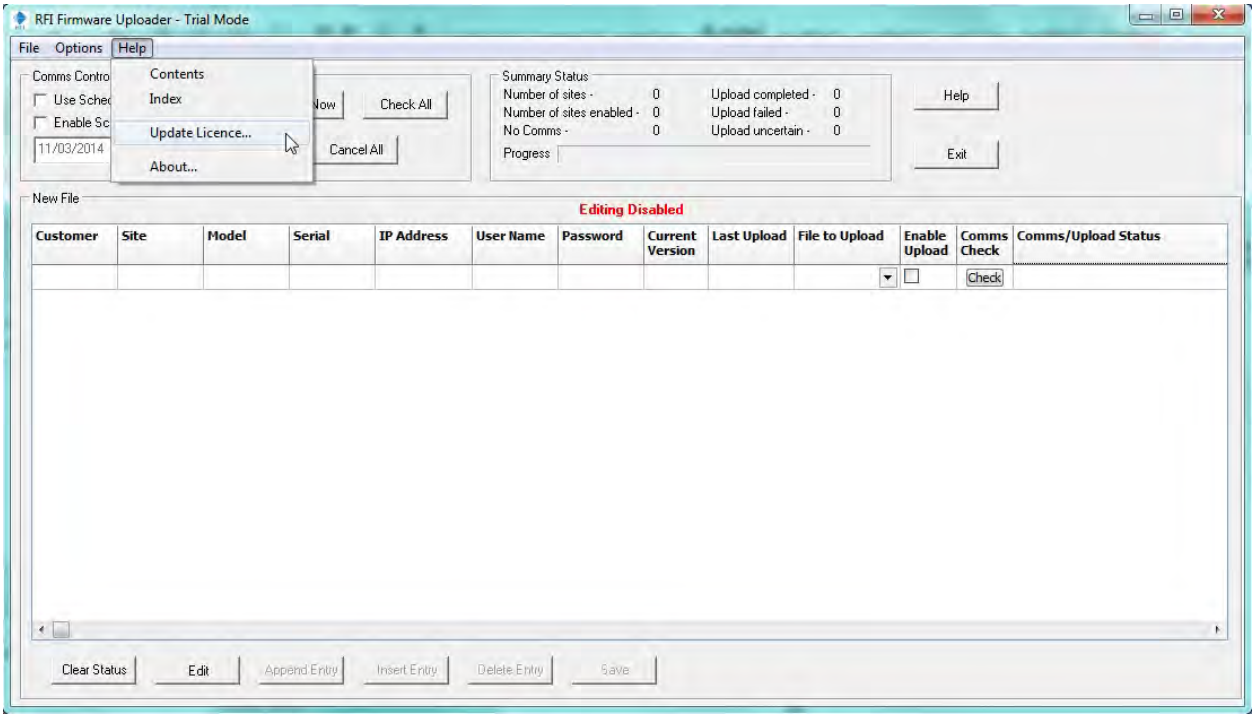
5.3 Registering the Program

To register the program, and remove its trial period limitations, a Licence Key may be purchased from RFI. Please contact your nearest RFI Sales office for purchasing details. Each purchase licenses the installation of the program on one computer only.

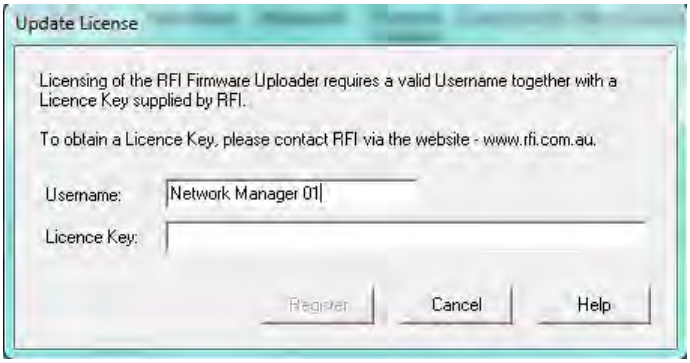
As part of this process, you will be asked to provide a "Username" of your choosing (i.e. "Network Manager 01"). The Licence Key that is provided is specific to this nominated Username.

A separate licence purchase must be made for each IP Address (i.e. each unit) to be managed using the software.

To activate a purchased Licence Key, select *Help – Update Licence* from the menu;

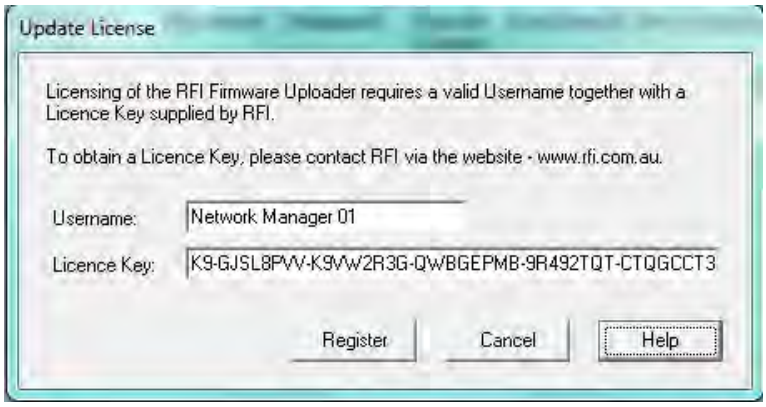


The following screen will appear;


Update License
Licensing of the RFI Firmware Uploader requires a valid Username together with a Licence Key supplied by RFI.
To obtain a Licence Key, please contact RFI via the website - www.rfi.com.au.
Username:
Network Manager 01
Licence Key:
Register
Cancel
Help

Type the Username nominated when the Licence Key was purchased.

Enter the provided Licence Key in the next field.

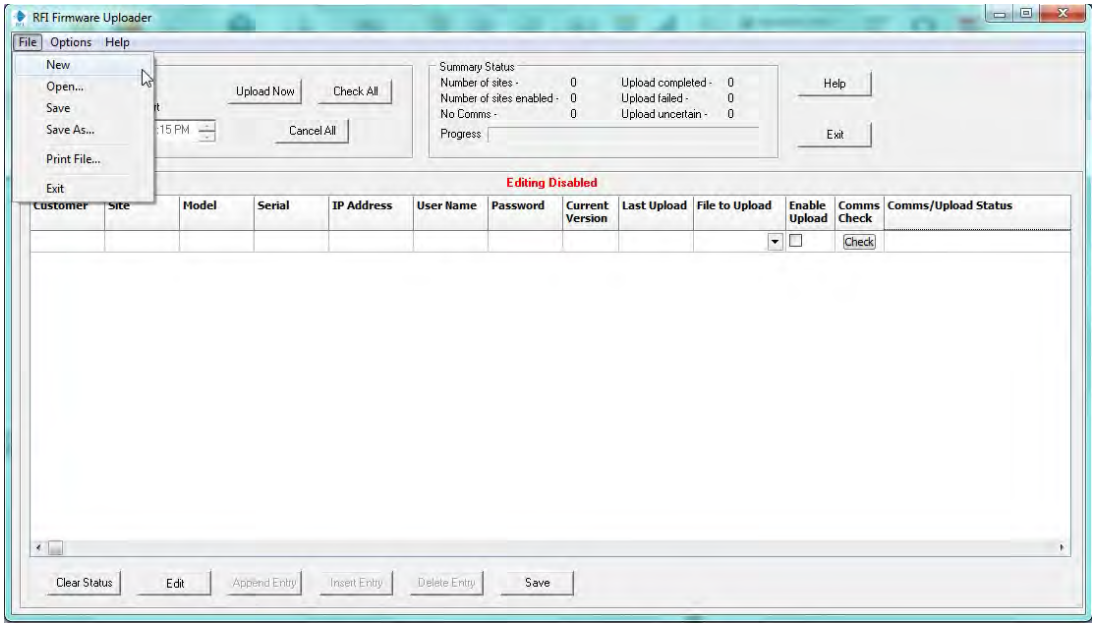

Update License
Licensing of the RFI Firmware Uploader requires a valid Username together with a Licence Key supplied by RFI.
To obtain a Licence Key, please contact RFI via the website - www.rfi.com.au.
Username:
Network Manager 01
Licence Key:
K9-GJSL8PVV-K9VW2R3G-QWBGEPMB-9R492TQT-CTQGCCT3
Register
Cancel
Help

Click "Register" to activate the Licence Key into the RFI Uploader program. A message screen will display the programs new licence status.

The following message will appear if the program registration has been successful;

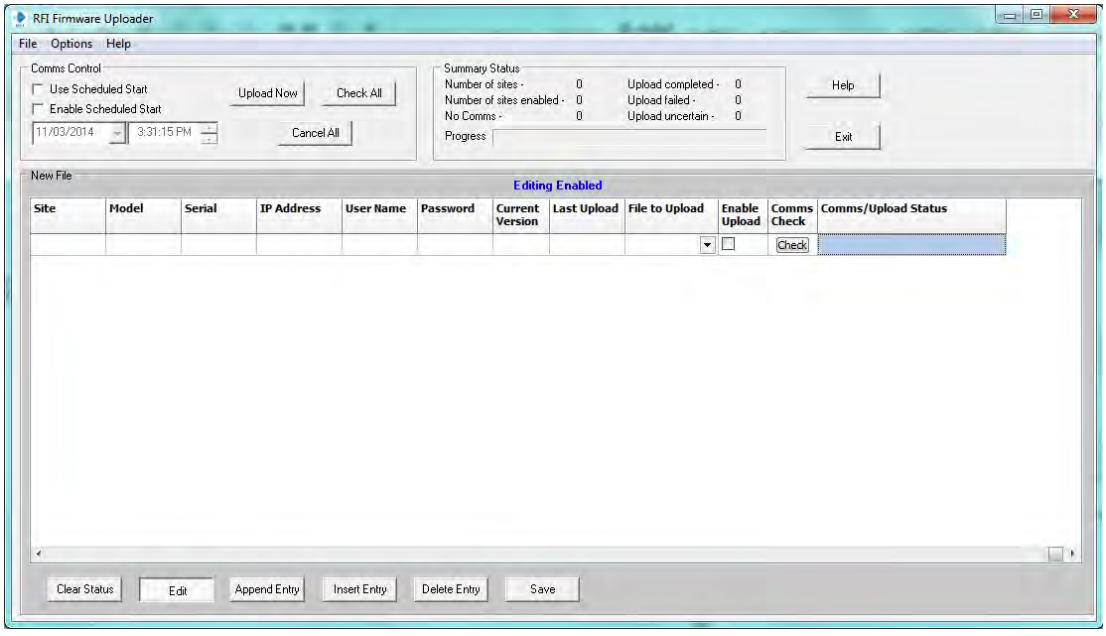
5.4 File Menu functions

The *File - New, Load, Save* and *Save As* functions manage the creation, retrieval and saving of product database files.



If running the RFI Uploader program for the first time, or if you wish to create a new database file, then select *File – New* from the menu. The above empty screen will be displayed.

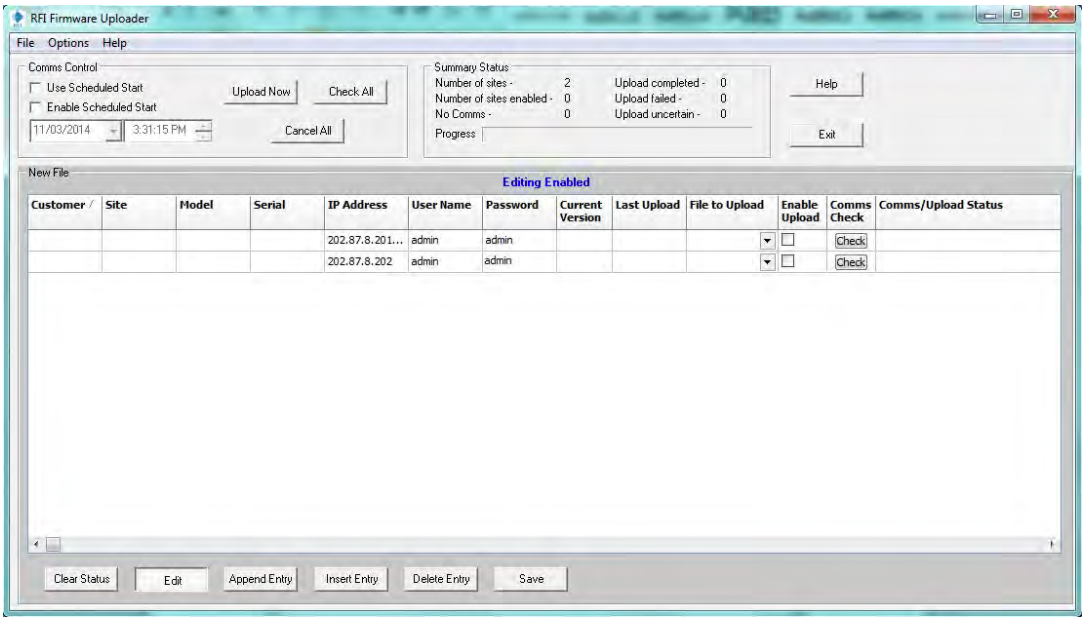
To commence entering unit data, click "Edit".



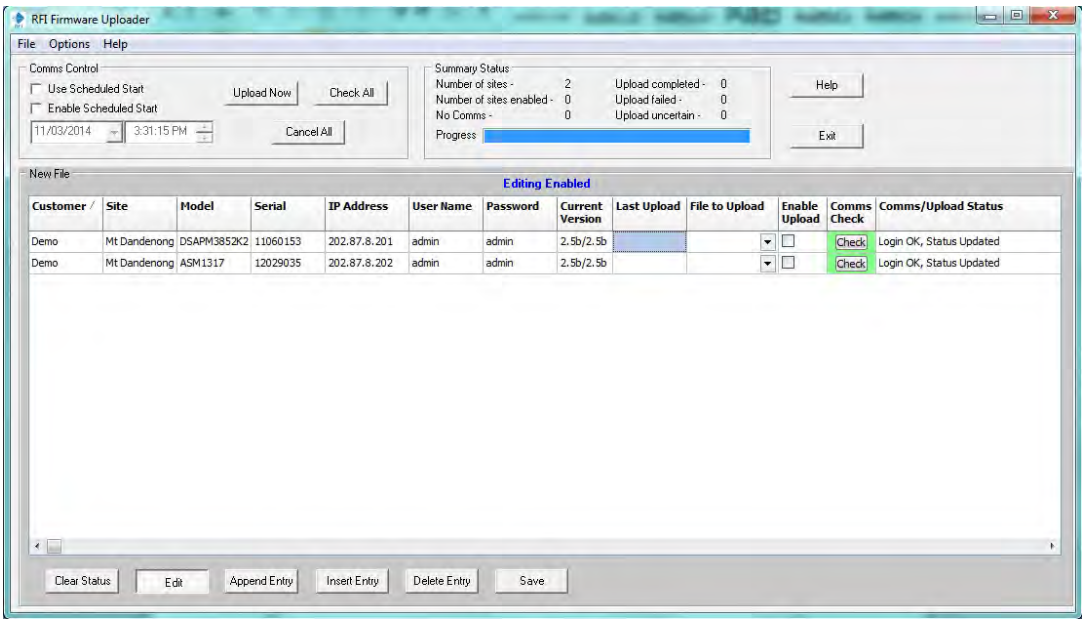
The outside of the data grid will be a darker shade of grey denoting the data grid is in Edit mode.

Note: Edit Mode must be active to enable any changes within the data grid.

When in Edit mode, select and complete the IP Address, User Name and Password fields of the data grid. Click "Append Entry" to add additional lines to the data grid to add additional sites.



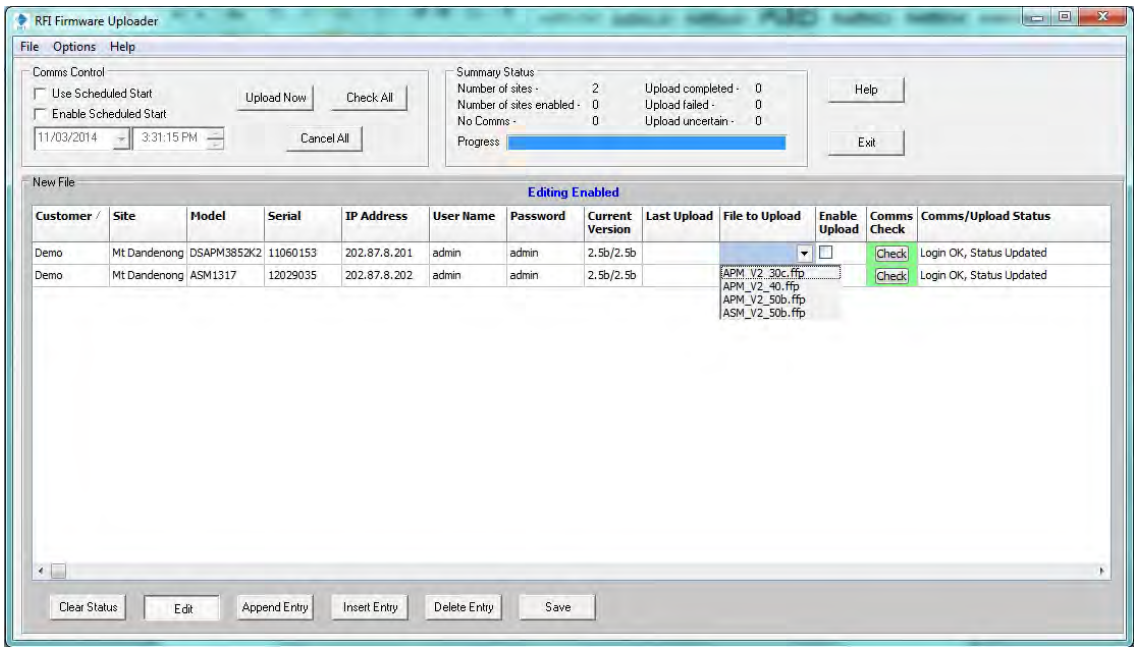
Click the "Check" button next to an individual site to test comms connectivity, and to retrieve its current configuration details, or click "Check All" to perform this task for all sites in the list. Alternatively, select *Use Scheduled Start* and *Enable Scheduled Start* and choose a Date and Time, if you wish this task to be run at a nominated later time (i.e. after business hours or during a programmed site outage period).



At the completion of the selected Check cycle, the remaining fields of the data grid will be filled in with the values retrieved from each site. The *Summary Status* fields and blue colored progress bar at the top of the screen provides relevant status information on the completed tasks. From the data updated into the data grid, the currently loaded firmware/GUI revisions can be seen (2.5b/2.5b in these examples) along with each unit's Site Name, Model Number and Serial Number. Comments are displayed for each site in the data grid in the Comms/Upload Status field.

5.5 Upgrading Firmware

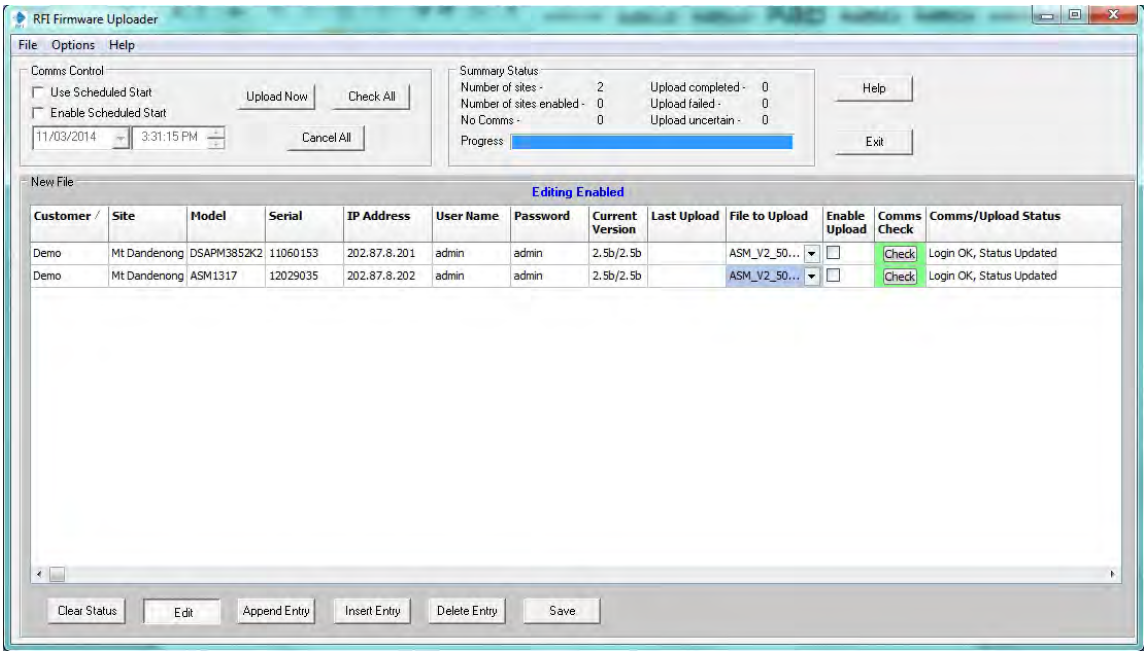
In the Edit mode, select the dropdown box under *File to Upload*.



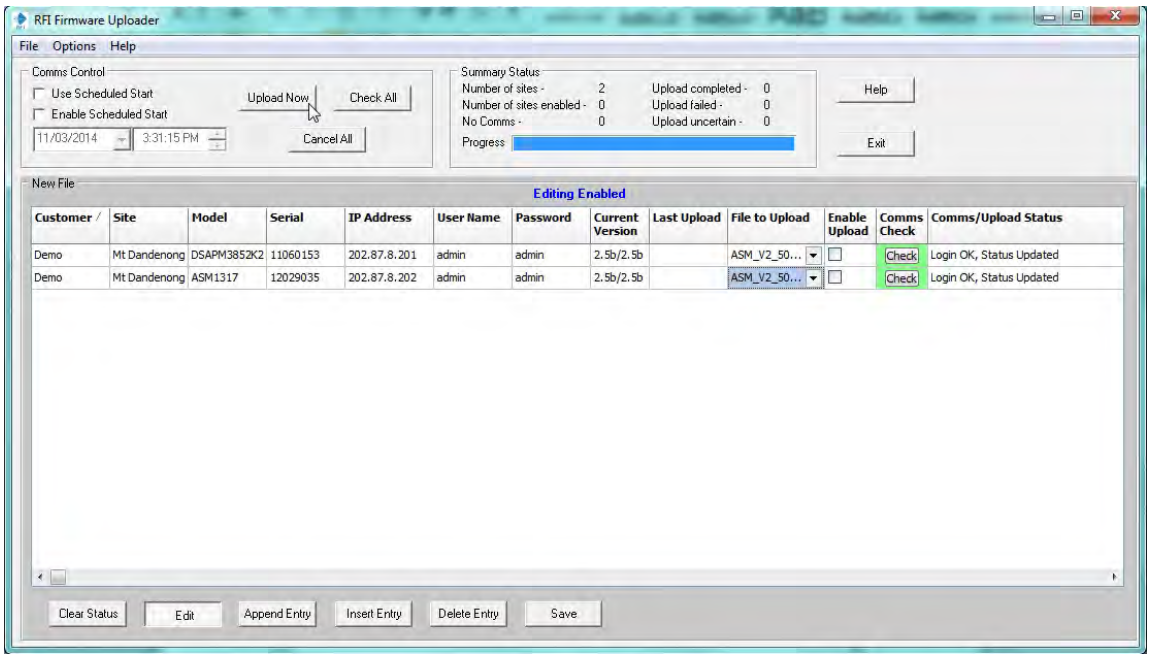
The available firmware files will appear in the dropdown. Select the desired firmware to upload to each unit in the data grid.

WARNING: The selected firmware version should always be a later version number than that currently installed in each product. Never attempt to downgrade a firmware version as the products file system may be corrupted, requiring the product to be returned to RFI for recovery of operation.

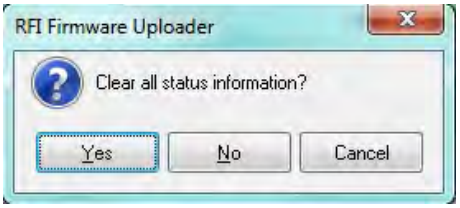
For each site that you wish to upgrade, select the Enable Upload box.



Click the "Upload Now" button to commence the upload task, or click "Upload All" to perform this task for all sites in the list. Alternatively, select *Use Scheduled Start* and *Enable Scheduled Start* and choose a Date and Time - if you wish this task to be run at a nominated later time (i.e. after business hours or during a programmed site outage period).



Upload task status is reported in the *Summary Status* fields. Progress and status comments are displayed for each site in the data grid in the Comms/Upload Status field. A message box will appear requesting if the reported status from the previous task can be cleared.

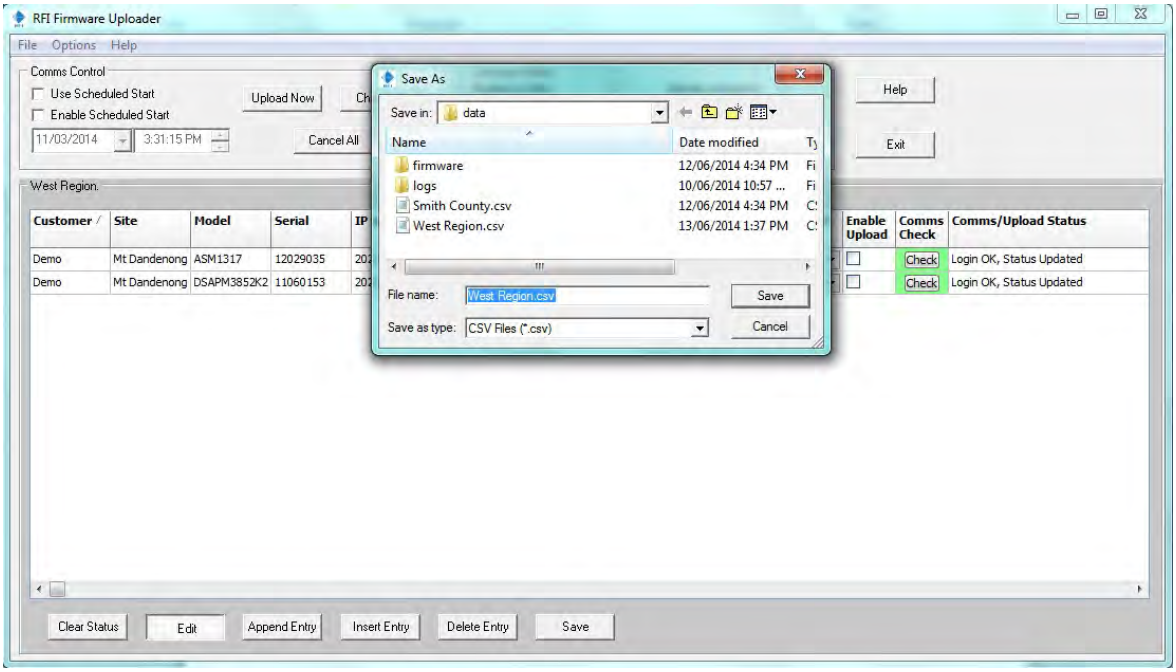


Click "Yes" to proceed.

5.6 Loading and Saving Databases

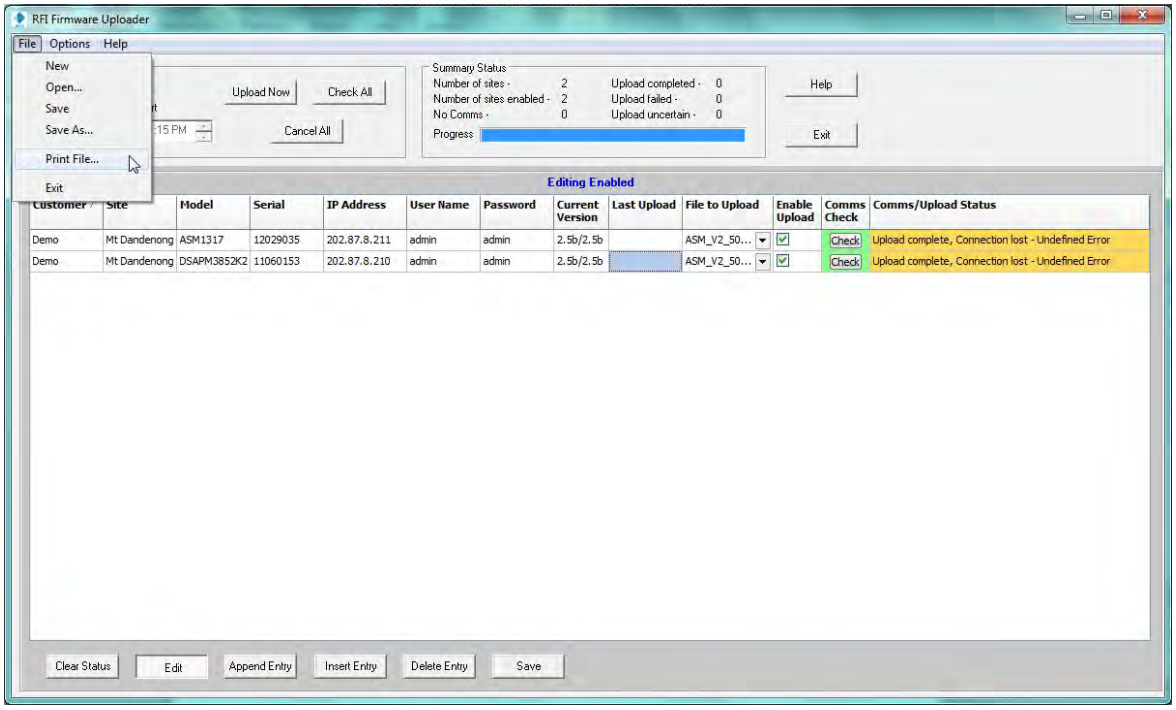
The RFI Uploader program allows multiple databases (i.e. networks) to be managed. All of the products or sites in an entire network could be entered into a single data grid and saved as one file (i.e. "Smith County"), or multiple regions could be distributed across multiple files (i.e. "South Region", "West Region", etc).

After a group of entries has been entered into the data grid, it can be saved via the *File – Save* or *File – Save As* menu selections. Any previously saved file can also be retrieved via the *File – Load* menu.

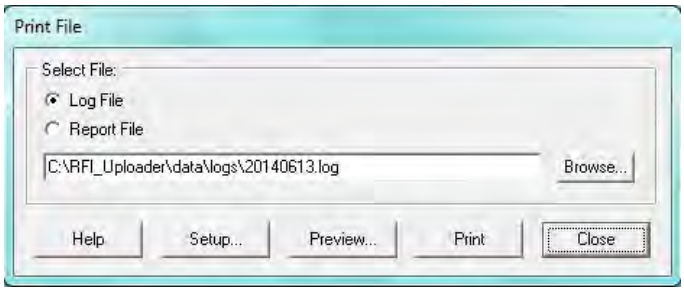


5.7 Viewing or Printing a Log File or Report File

The RFI Uploader program saves a log and status report file after each Check of Upload event. This file can be viewed or printed to provide confirmation of the events completion status.



Select *File – Print* File in the menu. The following screen will appear;



Select whether you wish to view or print a *Log File* or *Report File*. *Browse* to the location where these files reside. At this time you can select to *Preview* or *Print* the selected file. *Setup* allows you to select and configure your printer.

Example Log File (Preview)

Firmware Uploader Activity Log

Logfile: 20140613.log

Start Time	Activity	Results
6/13/2014 1:42:02 PM	Checking 'http://202.87.8.211'.	Login OK; Status Updated.
6/13/2014 1:42:04 PM	Checking 'http://202.87.8.210'.	Login OK; Status Updated.
6/13/2014 1:43:50 PM	Uploading to 'http://202.87.8.211'.	Starting upload; current version = '2.5b/2.5b'. Upload complete but Connection lost - Undefined ERROR.
6/13/2014 1:44:54 PM	Uploading to 'http://202.87.8.210'.	Starting upload; current version = '2.5b/2.5b'. Upload complete but Connection lost - Undefined ERROR.

Example Report File (Preview)

Firmware Uploader Report

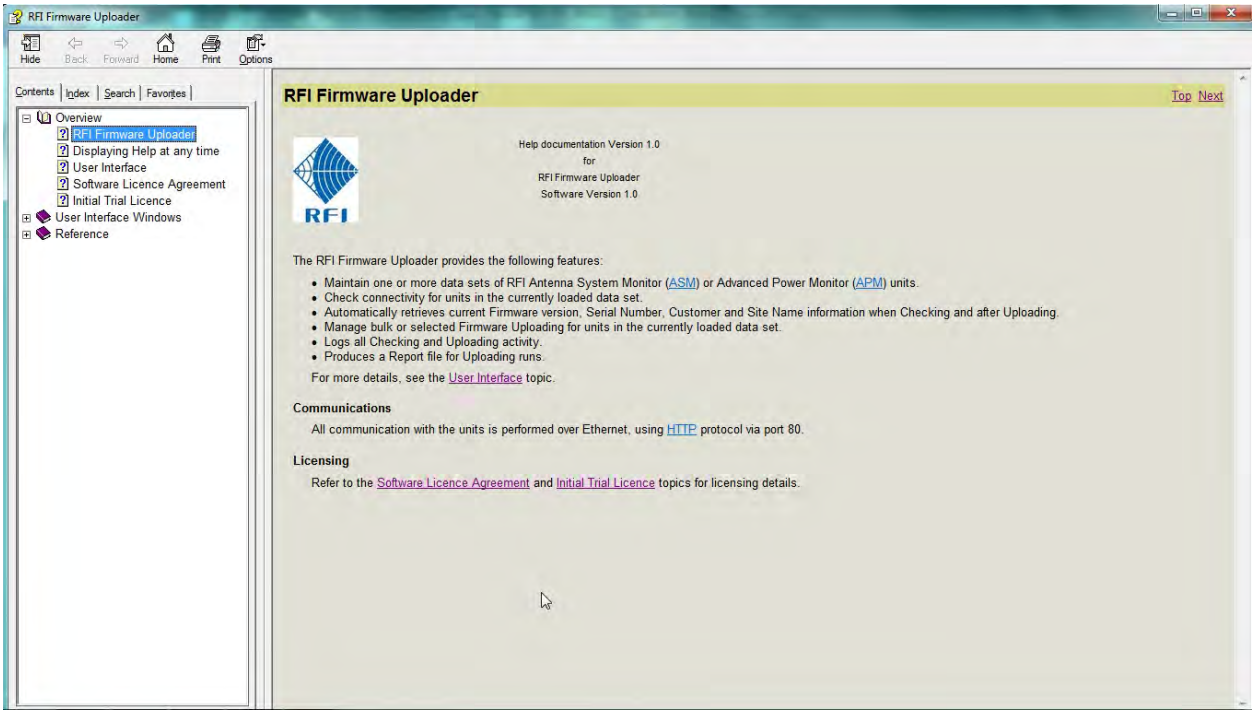
Upload Start: 6/13/2014 1:43:50 PM

Upload Finish: 6/13/2014 1:45:56 PM

Customer Name	Site Name	Model Name	Serial Number	IP Address	Previous Version	New Version	Upload Status
AA Radio	Mt Dandenong	ASM1317	12029035	202.87.8.211	2.5b/2.5b	Unknown	Unknown
AA Radio	Mt Dandenong	DSAPM3852K2	11060153	202.87.8.210	2.5b/2.5b	Unknown	Unknown

6. Help Pages

A comprehensive Help menu is provided in the RFI Uploader program. On any screen, click the Help button to display the available information, or search by topic if desired.


RFI Firmware Uploader
Hide
Back
Forward
Home
Print
Options
Contents
Index
Search
Favorites
Overview
RFI Firmware Uploader
Displaying Help at any time
User Interface
Software Licence Agreement
Initial Trial Licence
User Interface Windows
Reference
RFI Firmware Uploader
Top
Next
Help documentation Version 1.0
for
RFI Firmware Uploader
Software Version 1.0
RFI
The RFI Firmware Uploader provides the following features:
Maintain one or more data sets of RFI Antenna System Monitor (ASM) or Advanced Power Monitor (APM) units.
Check connectivity for units in the currently loaded data set.
Automatically retrieves current Firmware version, Serial Number, Customer and Site Name information when Checking and after Uploading.
Manage bulk or selected Firmware Uploading for units in the currently loaded data set.
Logs all Checking and Uploading activity.
Produces a Report file for Uploading runs.
For more details, see the User Interface topic.
Communications
All communication with the units is performed over Ethernet, using HTTP protocol via port 80.
Licensing
Refer to the Software Licence Agreement and Initial Trial Licence topics for licensing details.

7. User Notes

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